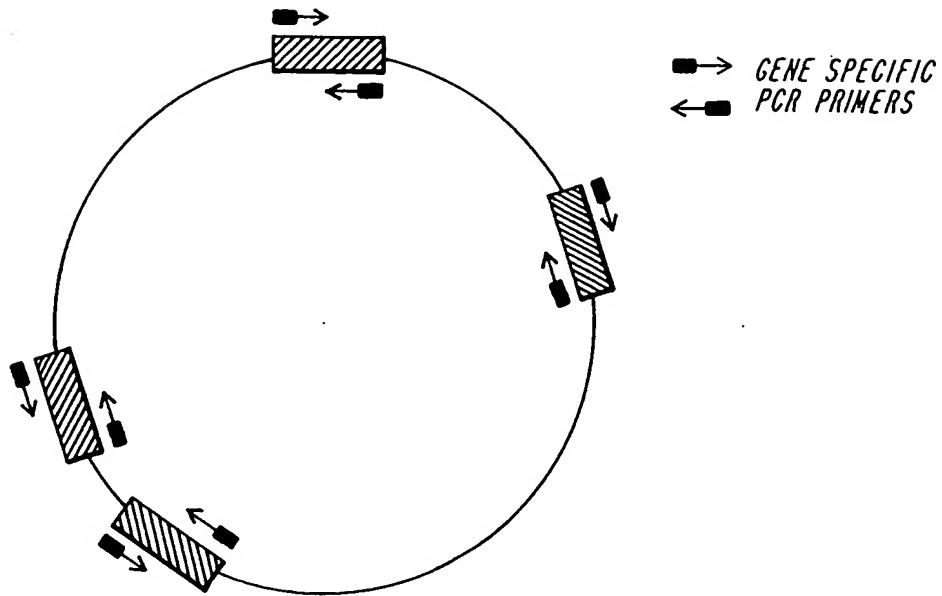
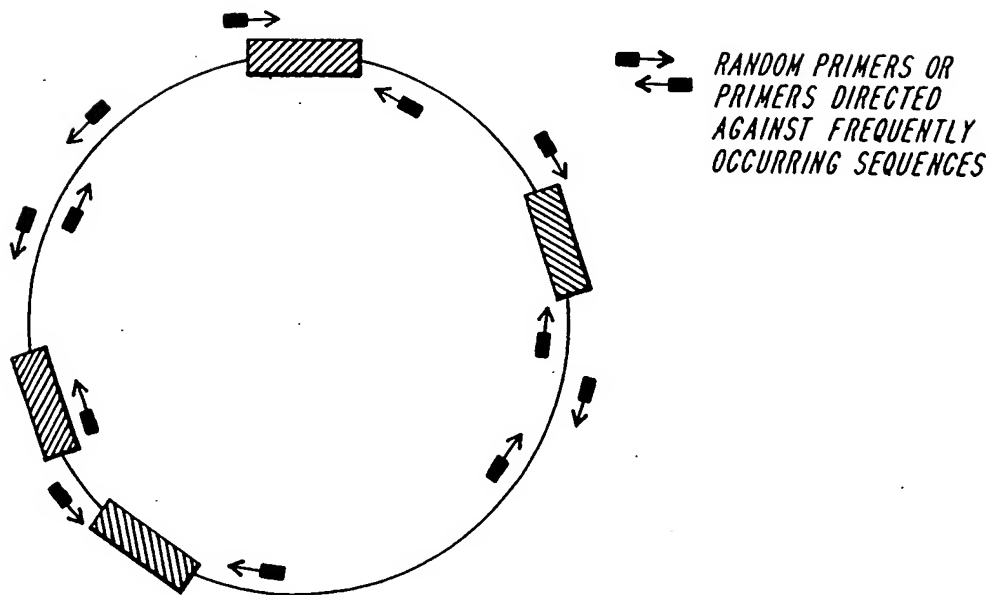


**FIG. 1**



**FIG. 2A**



**FIG. 2B**

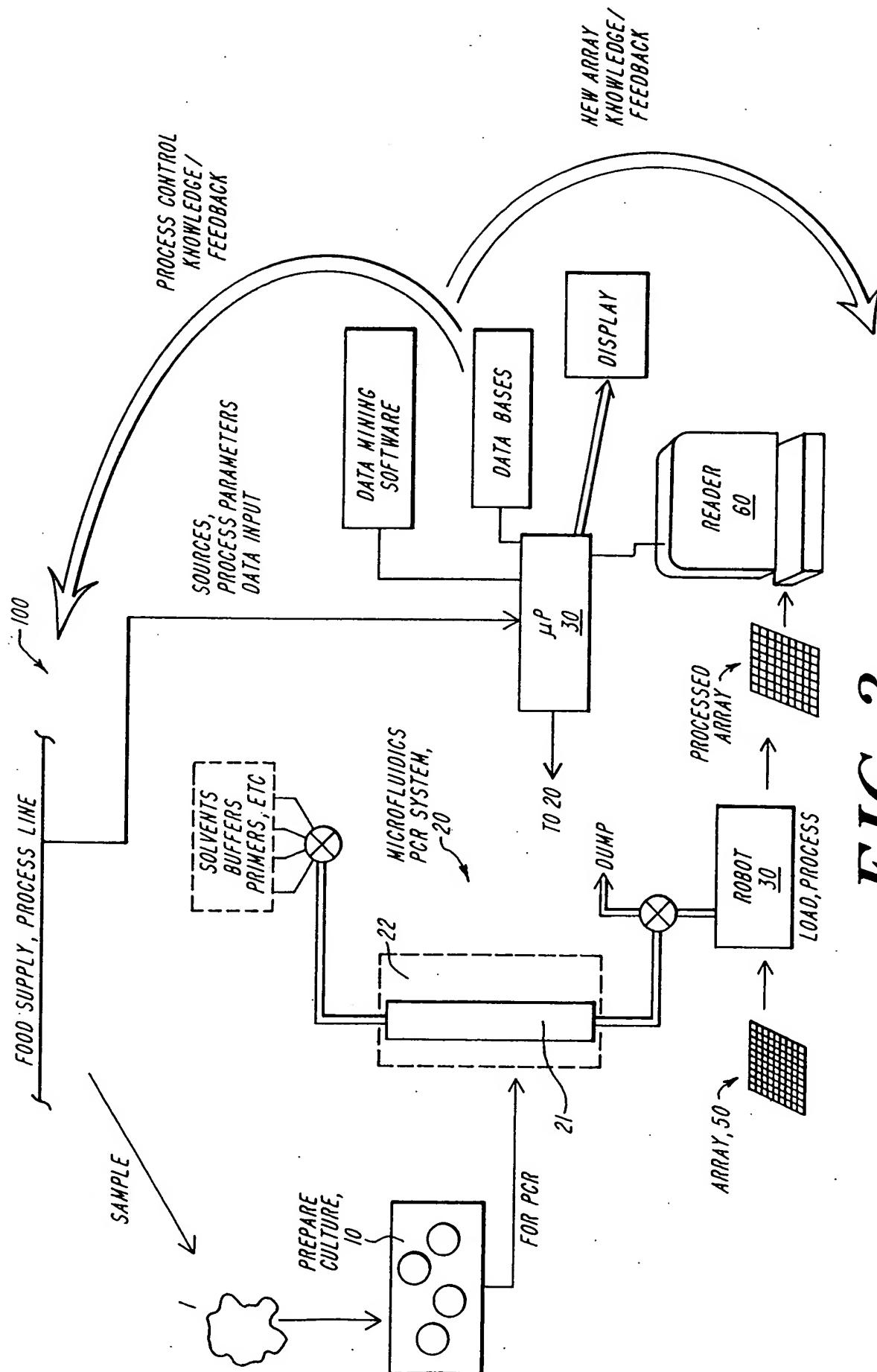


FIG. 3

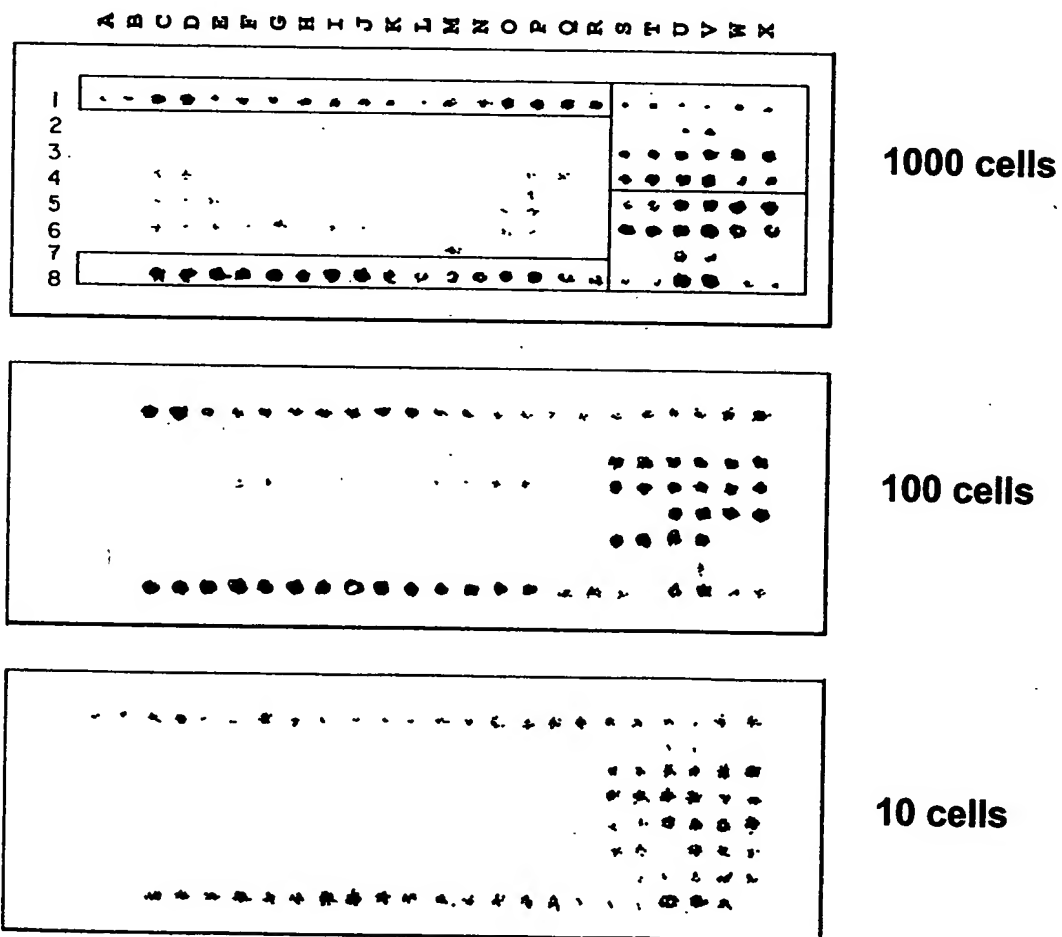
Gene target table for model array

	A-B	C-D	E-F	G-H	I-J	K-L	M-N	O-P	Q-R	S-T	U-V	W-X
1 Bacillus/Listeria	Bacillus Hemolysin BL	Bacillus Enterotoxin	Bacillus <i>dacF</i>	Bacillus <i>spoIIGA</i>	Bacillus <i>sigE</i>	Bacillus <i>sigE</i>	Bacillus Enterotoxin A ( <i>hblB</i> )	Bacillus <i>spoOA</i>	Bacillus <i>spoIIAA</i>	Listeria <i>lpa-p60</i>	Listeria <i>ltaA</i>	Listeria <i>mpl</i>
2 Controls	Blank	Blank	Control <i>gfp</i>	Control <i>gfp</i> 1:10	Control <i>gfp</i> 1:100	Control <i>gfp</i> 1:1000			Control <i>gfp</i>	Control <i>gfp</i>		
3 Campylobacter/Lis Tena	Campy <i>pgIA</i>	Campy <i>cipA</i>	Campy <i>lig3</i>	Campy <i>flaB</i>	Campy <i>ciaE</i>	Campy <i>folP</i>	Campy <i>pgID</i>	Campy <i>pgIF</i>	Campy <i>pgIB</i>	Listeria <i>ltaB</i>	Listeria <i>hlyA</i>	Listeria <i>inlA</i>
4 E.coli/Listeria	E.coli <i>asptRNA</i>	E.coli 23sRNA	E.coli <i>lacZ</i>	E.coli <i>thrRNA</i>	E.coli <i>hlyD</i>	E.coli <i>gdh</i>	E.coli <i>rpoS</i>	E.coli <i>uidA</i>	E.coli <i>air</i>	Listeria <i>prfA</i>	Listeria <i>plcB</i>	Listeria <i>plcA</i>
5 Yersinia/O157	Yersinia <i>yopD</i>	Yersinia <i>yopB</i>	Yersinia <i>yopH</i>	Yersinia <i>yopE</i>	Yersinia <i>lcrV</i>	Yersinia <i>virF</i>	Yersinia <i>yopN</i>	Yersinia <i>yopP</i>	Yersinia <i>yopM</i>	O157:H7 <i>ehxA</i>	O157:H7 <i>hlyA</i>	O157:H7 <i>toxB</i>
6 Staphylococcus aureus/E. coli O157:H7	S. aureus <i>entG</i>	S. aureus <i>sarA</i>	S. aureus <i>entA</i>	S. aureus <i>entD</i>	S. aureus nuclease	S. aureus <i>set1A</i>	S. aureus <i>agrB</i>	S. aureus <i>entI</i>	S. aureus <i>tsst-1</i>	O157:H7 <i>espP</i>	O157:H7 <i>eeeA</i>	O157:H7 <i>etpC</i>
7 Shigella/E. coli O157:H7	Shigella <i>fur</i>	Control <i>gfp</i>	Shigella <i>icsB</i>	Shigella <i>stxA</i>	Shigella <i>lpaC</i>	Shigella <i>vacB</i>	Control <i>gfp</i>	Shigella <i>ipaB</i>	Shigella <i>virR</i>	Shigella <i>sod</i>	Control <i>gfp</i>	Shigella <i>virF</i>
8 Salmonella/E.coli O157:H7	Salmonella <i>sopE</i>	Salmonella <i>pagC</i>	Salmonella <i>invJ</i>	Salmonella <i>spiA</i>	Salmonella <i>prgK</i>	Salmonella <i>traJ</i>	Salmonella <i>traK</i>	Salmonella <i>tnvH</i>	Salmonella <i>traB</i>	O157:H7 <i>Ror2</i>	O157:H7 <i>stx2</i>	O157:H7 <i>escT</i>

FIG. 4

# FIG. 4A

- |  |   |
|--|---|
| 1A-1R = <i>Bacillus cereus</i>                       | 1S-1X = <i>Listeria monocytogenes</i>           |
| 2A-2Z = controls                                     | 2S-2X = controls (UV are positive controls)     |
| 3A-3R = <i>Campylobacter jejuni</i>                  | 3S-3X = <i>Listeria monocytogenes</i>           |
| 4A-4R = <i>E. coli</i>                               | 4S-4X = <i>Listeria monocytogenes</i>           |
| 5A-5R = <i>Yersinia enterocolitica</i>               | 5S-5X = <i>E. coli</i> O157:H7                  |
| 6A-6R = <i>Staphylococcus aureus</i>                 | 6S-6X = <i>E. coli</i> O157:H7                  |
| 7A-B, 7E-L, 7O-T, 7W-X = <i>Shigella dysenteriae</i> | 7C-D, 7M-N, 7U-V = controls (UV are + controls) |
| 8A-8R = <i>Salmonella enterica</i>                   | 8S-8X = <i>E. coli</i> O157:H7                  |



BEST AVAILABLE COPY

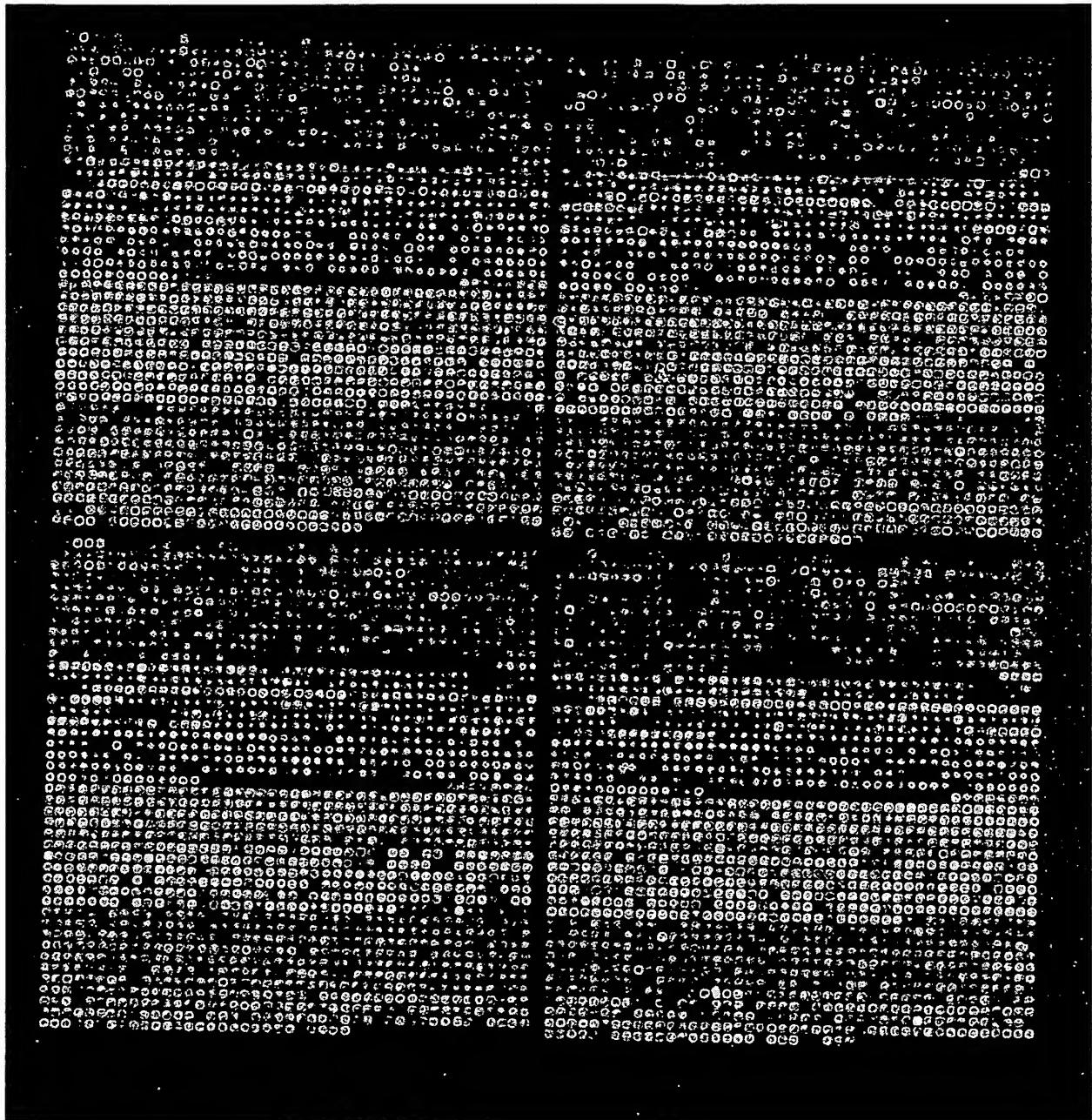
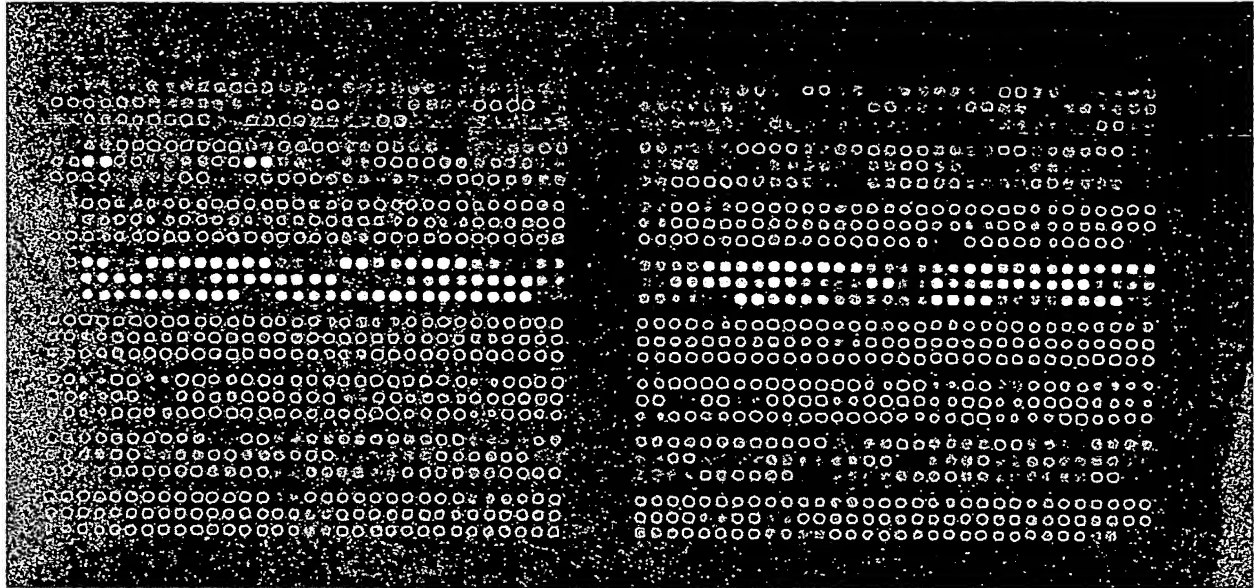


FIG. 5

BEST AVAILABLE COPY

**BEST AVAILABLE COPY**



**FIG. 6**

**BEST AVAILABLE COPY**